

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,101,487 B2
APPLICATION NO. : 10/722313
DATED : September 5, 2006
INVENTOR(S) : Henry Hsu et al.

Page 1 of 3

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At column 7, line 56, please delete "dihydioxyl" and insert -- dihydroxyl --, therefor.

At column 7, line 58, before "More" please insert -- In some embodiments, functionalized perfluorinated polyether fluid additive comprises one or more functional groups selected from the group consisting of silane, phosphate, hydroxyl, carboxylic acid, amine, dihydroxyl, ethoxy ether, isocyanate, aromatic, ester and alcohol functions. --

At column 10, line 53 through column 11, line 17, please delete the paragraph beginning "Other ingredients can be optionally added . . ." and ending "available from Solvay Solexis (Thorofare, N.J., USA)," and insert the following paragraph therefor:

-- In another embodiment, the MR fluid used in combination with a prosthetic knee may optionally comprise an additive. Suitable additives include, but are not limited to, functionalized carrier fluids as well as fluoropolymers. In one embodiment, the iron particles comprise from about 1 to about 60 % (v/v) of the total MR fluid volume, preferably from about 10 to about 50% (v/v), more preferably from about 20 to about 40% (v/v), but also including about 5, 15, 25, 30, 35, 45, and 55 % (v/v), and ranges encompassing these amounts. In one embodiment, the additive comprises from about 0.1 to about 20 % (v/v) of the carrier fluid, preferably from about 1 to about 15 % (v/v), more preferably from about 2 to about 10 % (v/v), but also including 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 11, 12, 13, 14, 16, 17, 18, and 19 % (v/v). For

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example, in one embodiment a preferred MR fluid used in combination with a prosthetic knee in shear mode comprises about 32% (v/v) particles and about 68% (v/v) fluid component wherein said fluid component comprises about 5% (v/v) a perfluoropropene and oxygen polymerized amide derivative additive and about 95% (v/v) perfluorinated polyether carrier fluid. In another embodiment a preferred MR fluid used in combination with a prosthetic knee in shear mode comprises about 28% (v/v) particles and about 72% (v/v) fluid component wherein, said fluid component comprises about 5% (v/v) a perfluoropropene and oxygen polymerized amide derivative additive and about 95% (v/v) perfluorinated polyether carrier fluid. In another embodiment, a preferred MR fluid used in combination with a prosthetic knee in shear mode comprises about 32% (v/v) particles, and about 68% (v/v) fluid component wherein said fluid component comprises about 5% (v/v) poly(hexafluoropropylene epoxide) with a carboxylic acid located on the terminal fluoromethylene group additive and about 95% (v/v) PFPE oil carrier fluid. In another embodiment, a preferred MR fluid used in combination with a prosthetic knee in shear mode comprises about 28% (v/v) particles, and about 72 % (v/v) fluid component wherein said fluid component composes about 5% (v/v) poly(hexafluoropropylene epoxide) with a carboxylic acid located on the terminal fluoromethylene group additive and

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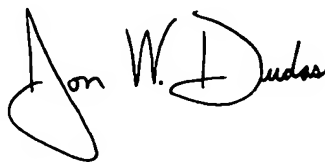
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about 95% (v/v) PFPE oil carrier fluid. In embodiments containing PFPE oil,
the PFPE oil may comprise substantially all one PFPE oil or a mixture of one or
more PFPE oils. --

Signed and Sealed this
Twenty-sixth Day of August, 2008

A handwritten signature in black ink, appearing to read "Jon W. Dudas". The signature is stylized with a large, looping initial "J" and a distinct "D".

JON W. DUDAS
Director of the United States Patent and Trademark Office